

Message Text

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S E C R E T MOSCOW 10156

EXDIS

E.O. 11652: GDS

TAGS: PARM, US, UR, OEXD

SUBJECT: NUCLEAR TEST BAN TECHNICAL TALKS:

BRACKETED TEXT OF PROTOCOL

HERE IS THE CURRENT VERSION OF THE BRACKETED TEXT OF
THE PROTOCOL. USE THE FOLLOWING LEGEND IN READING
IT:

XX - BEGIN BRACKET;

XX US - END BRACKET (WORDING PROPOSED BY US DELEGATION);

XX SOV - END BRACKET (WORDING PROPOSED BY USSR DELEGATION);

BEGIN TEXT:

PROTOCOL TO THE XX AGREEMENT XXSOV
XX TREATY XXUS BETWEEN THE USA AND THE USSR
ON THE LIMITATION OF UNDERGROUND NUCLEAR
XX WEAPON TESTS XXSOV XX EXPLOSIONS XXUS

XX THE UNITED STATES OF AMERICA AND THE UNION OF
SOVIET SOCIALIST REPUBLICS, HEREINAFTER REFERRED TO AS
THE PARTIES,

HAVING AGREED TO LIMIT UNDERGROUND NUCLEAR EXPLOSIONS,
HAVE AGREED AS FOLLOWS: XXUS

XX SUPPLEMENTING THE AGREEMENT ON THE LIM-
TATION OF UNDERGROUND NUCLEAR WEAPON TESTS, THE
PARTIES HAVE REACHED THE FOLLOWING UNDERSTANDING: XXSOV

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FOR THE PURPOSE OF ENSURING XX ADEQUATE XXUS

VERIFICATION BY NATIONAL TECHNICAL MEANS OF COMPLIANCE
WITH THE OBLIGATIONS OF THE PARTIES UNDER THE XX AGREEMENT XXSOV,
XX TREATY XXUS THE PARTIES SHALL, ON THE BASIS OF RECI-
PROCITY, EXCHANGE THE FOLLOWING DATA:

1. THE GEOGRAPHIC COORDINATES OF THE BOUNDARIES
OF EACH TEST SITE AND XX OF THE BOUNDARIES OF XXUS THE
TESTING AREAS THEREIN WHERE UNDERGROUND NUCLEAR WEAPON
TESTS WILL BE CONDUCTED. XX THE PARTIES AGREE THAT ALL
NUCLEAR WEAPON TESTS WILL BE CONDUCTED WITHIN THE TESTING
AREAS SO SPECIFIED. XXUS

XX 2. A GEOLOGICAL MAP OF THE ENTIRE TEST SITE AT
A SCALE OF 1:62,500, INCLUDING A STRATIGRAPHIC SECTION WITH
LITHOLOGICAL DESCRIPTIONS. XXUS

XX 2 XXSOV XX 3 XXUS. INFORMATION ON THE GEOLOGY
OF THE TESTING AREAS OF THE SITES XX (TYPES OF GEOLOGICAL
FORMATIONS, THEIR AGE, PETROLOGY, AND BASIC PHYSICAL
PROPERTIES OF ROCK: I.E., DENSITY, SEISMIC VELOCITY, WATER
SATURATION, POROSITY AND DEPTH OF WATER TABLE) XXSOV.
XX THIS INCLUDES THREE-DIMENSIONAL DESCRIPTIONS OF ALL GEO-
PHYSICALLY DISTINCT ROCK UNITS IN TESTING AREAS. GEOPHYSICALLY
DISTINCT ROCK UNITS ARE DEFINED AS ROCK UNITS WITHIN
WHICH THE PHYSICAL CHARACTERISTICS WHICH EFFECT SEISMIC
COUPLING ARE APPROXIMATELY CONSTANT. FOR EACH OF THESE
GEOPHYSICALLY DISTINCT ROCK UNITS, DATA AVERAGED OVER
DISTANCES OF ABOUT 100 METERS SHALL BE PROVIDED CONCERNING
PETROLOGY, DENSITY, SEISMIC VELOCITY, POROSITY AND
DEGREE OF WATER SATURATION, DEPTH OF THE WATER TABLE,
AND DEPTH OF PERMAFROST IF IT EXISTS. IF EXPLOSIONS ARE
PLANNED NEAR THE BOUNDARIES OF ADJACENT UNITS, THEN SIMILAR
PHYSICAL PROPERTIES OF THE ADJACENT UNITS SHALL BE DESCRIBED
OUT TO A DISTANCE OF SEVERAL TIMES THE RADIUS OF THE CAVITY
EXPECTED FOR EACH EXPLOSION. XXUS

XX 3 XXSOV XX 4 XXUS. THE GEOGRAPHIC COORDINATES
XX TO THE NEAREST SECOND, AND THE DEPTHS, XXSOV OF UNDER-
GROUND NUCLEAR WEAPON TESTS, AFTER THEY HAVE BEEN CON-
DUCTED. FOOTNOTE: THE US DELEGATION HAS EXPRESSED RESER-
VATIONS REGARDING THIS PARAGRAPH, BUT HAS NOT PROPOSED
ALTERNATIVE WORDING.

XX 5. A SUFFICIENT NUMBER OF DATA POINTS FROM
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ACTUAL TESTS IN EACH GEOPHYSICALLY DISTINCT ROCK UNIT TO
ESTABLISH A VALID PLOT OF YIELD VERSUS SEISMIC MAGNITUDE
IN THAT ROCK UNIT. EACH DATA POINT MUST BE CHARACTERIZED
BY INFORMATION ON ACTUAL YIELD, SEISMIC MAGNITUDE, DATE,
TIME, DEPTH, LOCATION AND DESCRIPTION OF THE CONTAINING
MEDIUM FOR THE EXPLOSION CORRESPONDING TO THE DATA
POINT. THESE POINTS SHALL REPRESENT FULLY TAMPED EX-
PLOSIONS FOR WHICH THE YIELDS ARE WELL KNOWN AND SHOULD

REPRESENT YIELDS NEAR THE AGREED THRESHOLD OR, IN ANY CASE, GREATER THAN 10 KILOTONS. THESE SHOTS SHALL HAVE BEEN FIRED SINCE THE BEGINNING OF 1967 AND SHOULD BE WITHIN ABOUT 10 KILOMETERS OF FUTURE SHOT POINTS. THE DESCRIPTION OF THE CONTAINING MEDIUM SHOULD INCLUDE A GEOLOGICAL CROSS-SECTION TO 200 METERS BELOW THE SHOT POINT OR TO BASEMENT, INDICATING EXPLORATORY HOLES AND METHODS USED TO OBTAIN DATA, AND A DESCRIPTION OF ROCK PROPERTIES FOR 200 METERS ABOVE AND BELOW SHOT POINT, INCLUDING PETROGRAPHIC DESCRIPTIONS, DENSITY, SEISMIC VELOCITY, POROSITY AND DEGREE OF SATURATION. WITH THIS DESCRIPTION HERE SHOULD BE A STATEMENT CONCERNING THE METHODS USED TO OBTAIN THE INCLUDED DATA. XXUS

XX 6. FOR PEACEFUL NUCLEAR EXPLOSIONS, THE SAME ITEMS OF GEOLOGICAL AND GEOPHYSICAL INFORMATION IN THE VICINITY OF THE SHOT POINT AS REQUIRED FOR THE SPECIFIED TEST SITES. IN ADDITION THERE SHALL BE PROVIDED ADEQUATE NOTIFICATION AT LEAST TWO MONTHS PRIOR TO THE SHOT, A SCHEDULED DETONATION TIME UPDATED AS NECESSARY TO THE ACTUAL SHOT TIME, THE SPECIFIC PURPOSE OF THE EVENT, THE LOCATION TO THE NEAREST SECOND OF LATITUDE AND LONGITUDE, THE EXPECTED YIELD OF THE DEVICE OR DEVICES USED, THE DEPTH OR DEPTHS OF BURIAL, AND THE POST-SHOT MEASUREMENT OF YIELD. XXUS

THE PARTIES AGREE THAT THE EXCHANGE OF DATA ENVISAGED IN PARAGRAPHS XX 1 AND 2 XXSOV XX 1,2,3, AND 5 XXUS OF THIS PROTOCOL SHALL BE CARRIED OUT XX SIMULTANEOUSLY WITH XXSOV XX BEFORE XXUS THE EXCHANGE OF XX WRITTEN NOTICES OF THE ACCEPTANCE XXSOV XX INSTRUMENTS OF RATIFICATION XXUS OF THE XXAGREEMENT XXSOV XX TREATY XXUS BY EACH PARTY AS PROVIDED IN ARTICLE V, PARAGRAPH 1, OF THE XX AGREEMENT XXSOV XX TREATY XXUS.

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END TEXT

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